Salton Sea Preferred Alternative Work Group Meeting Summary 9:30am – 3:00pm October 5, 2006 Ontario, California

Meeting Attendees:

US Bureau of Reclamation: Paul Weghorst

US Fish and Wildlife Service: Peggy Bartels; Carol Roberts; Chris Schoneman

US Geological Survey: Doug Barnum Senator Ducheny's Office: Pat Cooper Department of Fish and Game: Jack Crayon

Department of Water Resources: Dale Hoffman-Floerke; Charles Keene; Doug Osugi

State Water Resources Control Board: Bart Christensen

Colorado River Basin Regional Water Quality Control Board: Jose Angel

Imperial County: Larry Grogan

Imperial County Farm Bureau: Al Kalin

Coachella Valley Water District: Monica Swartz California Waterfowl Association: Bill Gaines

Pacific Institute: Mike Cohen

San Diego County Water Authority: Bill Tippets Salton Sea Authority: Bill Brownlie; Rick Daniels

Imperial Group: Patrick Mahoney; Mike Morgan; Ali Shahroody

CH2M Hill: Gwen Buchholz

Facilitator: Patti Kroen

Attachments:

Attachment 1: Meeting Agenda

Attachment 2: Revised Matrix worksheets

The Work Group discussed the following topics:

- □ Pending release of the PEIR:
 - o Document release date target is October 16
 - Executive Summary will be available at Advisory Committee Meeting October 24
 - o 90-day comment period (to January 15)
 - o Public meetings to be held (near sea and outside area) in mid-November
- □ Use of the matrix and potential to rank the attributes
 - o Mandate-driven ranking
 - o Information within cells needs to be 'apples to apples' comparisons
 - Quantitative when possible
 - If no difference from which to distinguish the alternatives one from another, maintain a list of these attributes to track that we did consider it.
 - o Ranking may be a task to be undertaken at the Advisory Committee level, with the recommendation from the Working Group simply a grouping of

- the attributes into mandated 'low, medium, and high' and other considerations, ranked into three categories.
- While the Working Group made tentative rankings for the attributes, they
 acknowledged that nothing is cast in stone and attributes and rank could
 change with release of the PEIR.
- o Would be helpful to identify the level of uncertainty for each attribute.

Desired Outcomes for the Work Group:

- □ Due to the extended comment period, a recommendation is not required by the October 24, 2006 Advisory Committee meeting. The Committee will be provided an update from the Working Group with a recommendation to follow the next Working Group meeting
- □ Recommend a process by the end of the year to the Advisory Committee to be used by the Secretary to identify a Preferred Alternative
- Develop a tool to organize information for effective decision-making

Group Agreements - The Work Group agreed to:

Rank the attributes into three categories within two sub-sets (Mandated attributes-low, medium, or high, and Other attributes-low, medium, or high). See attached revised attribute matrices for the results of that effort during the meeting.

Action Items:

- □ Facilitator will 1) revise the attribute matrix as suggested by the Working Group and recorded on flip charts during the meeting, 2) provide the revised matrices to the Work Group for review and comment prior to the next meeting.
- Work Group participants will provide their comments on the matrices provided by the Facilitator for compilation and distribution in advance of the next Work Group meeting.

Next Meeting: November 20, 2006 9:30am – 3:30pm San Diego

Meeting Notes-Draft Only

Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Time to achieve biological results – Partial results – midimplementation	High								
Time to achieve biological results - Full Implementation	High	2027	2031	2023	2074	2029	2031	after 2078	2027
Type of habitat	High	Saline Habitat Complex	Saline Habitat Complex	Marine Sea	SHC with salinity limits and without cell walls	Marine Sea + Saline Habitat Complex	Marine Sea + Saline Habitat Complex	Marine Sea + Saline Habitat Complex	Marine Sea + Saline Habitat Complex
Quantity of habitat	High	38,000 ac	75,000 ac	61,000 ac	88,000 ac	62,000 ac + 45,500 ac	74,000 ac + 29,000 ac	104000 ac + 12,000 ac	83,000 ac + 18,000 ac
Diversity of habitat - fish	High	No Marine Sport Fish	No Marine Sport Fish	Marine Sport Fish	No Marine Sport Fish	Marine Sport Fish	Marine Sport Fish	Marine Sport Fish	Marine Sport Fish
Diversity of habitat - salinity	High	20,000 to 200,000 mg/L	20,000 to 200,000 mg/L	20,000 to 40,000 mg/L	20,000 to 40,000 mg/L	20,000 to 200,000 mg/L	20,000 to 200,000 mg/L	20,000 to 200,000 mg/L	20,000 to 200,000 mg/L
Diversity of habitat - Saline Habitat Complex with islands/snags	High	38,000 ac	75,000 ac	0	88,000 ac	45,500 ac	29,000 ac	12,000 ac	18,000 ac
Diversity of habitat – water depths	High	Less than 6 feet with up to 15 foot holes	Less than 6 feet with up to 15 foot holes	Up to 10 feet	Less than 6 feet with up to 15 foot holes	Up to 50 feet			
Invertebrate abundance/diversity	High								
Avian abundance/ diversity (PRBO)	High								
Construction disturbance to existing habitat or resources (e.g.	High	600 acres	600 acres	400 acres	400 acres	400 acres	200 acres	200 acres	400 acres

Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
seabed, shoreline, cultural)									
Wildlife disease risk	High	Equal	Equal	Equal	Equal	Equal	Equal	Equal	Equal
Early start	High								
Effects on T&E fish and wildlife - pupfish (others equal)	High	see below	see below	see below	see below	see below	see below	see below	see below
Effects on movement of species - pupfish	High	5 isolated areas + Salt Creek not connected	5 isolated areas + Salt Creek not connected	All areas connect in First Ring	4 isolated areas	4 isolated areas	All areas connect in Marine Sea except south- east drains isolated	All areas connect in Marine Sea except south- east drains not connected	All areas connect in Marine Sea except Salt Creek not connected
Effects due to selenium - birds and fish	High	#2	Least - #1	#3	Worst - #8	#7	#5	#6	#4
Effects due to hydrogen sulfide	High	No	No	Not likely	No	Maybe	Maybe	Maybe	Maybe
Effects on salinity - will meet design objectives (Quantify)	High	Yes	Yes	Yes	Yes - not until 2074	Yes	Yes	No - unless inflows exceed 800,000 af/year	Yes
Effects on temperature - will meet design objectives (Quantify)	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Effects on dissolved oxygen - will meet design objectives (Quantify)	High	Yes - will be low in morning	Yes - will be low in morning	Yes - may be delayed	Yes - will be low in morning	Yes - may be delayed	Yes - may be delayed	Yes - may be delayed	Yes - may be delayed
Excavation/ seabed disturbance	High								
Fugitive dust (construction) (tons/year)	High	99	183	337	74	439	2,333	2,813	2,565

Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Fugitive dust (O&M) (tons/year)	High	10	18	34	7.4	44	233	281	257
Fugitive dust (exposed playa) (tons/year)	High	197	228	329	4,101	391	384	2,415	217
Construction exhaust (Diesel PM10 + NO _x) (tons/year)	High	0.2 + 13	0.4 + 23	49 + 915	7 + 131	54 + 1,020	72 + 1,405	45 + 921	78 + 1,519
O&M exhaust - Diesel PM10 + NO _x) (tons/year)	High	0 + 1.3	0 + 2.3	5 + 92	0.7 + 13	5 + 102	7 + 141	5 + 92	8 + 152
Hazardous air pollutants - based on sea bed disturbance (millions cubic yards)	High	77.14	136.53	18.81	154.215	86.77	66.97	33.522	47.23
Odorous emissions (water quality related)	High	Possible from algae	Possible from algae	Possible from algae	Possible from algae	Possible for awhile	Possible for awhile	Possible for awhile	Possible for awhile
Causes erosion, siltation, increased runoff, or flooding	Low	No							
Structures in 100-yr flood zone - sea bed and all facilities are in flood zone	Low	Yes							
Causes inundation by seiche - compared Brine Sink and Marine Sea to Salton Sea	Low	Maybe - less than No Action Alt							

Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Effects on groundwater quality or quantity - will improve groundwater	Low	Yes	No						

Meeting Notes—Draft Only

Non-Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Recreation Attributes									
Fishing	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wildlife watching	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hunting	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Substantially change rec opportunities	High	100	100	1.00	100		. 00	100	. 55
Motor boating	Med	No	No	Yes	No	Yes	Yes	Yes	Yes
Non-motorized boating (canoes, kayaks)	Med	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Non-motorized boating (wind-surfing, sailing)	Med	No	No	Yes	No	Yes	Yes	Yes	Yes
Camping	Med	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Swimming	Low	No	No	Yes	No	Yes	Yes	Yes	Yes
OHV	Low	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water skiing	Low	No	No	Yes	No	Yes	Yes	Yes	Yes
Recreation Summary Row (suggestion to add summary row s)									
Economic development opportunities	High								
Recreational Economics	High								
Cost - Capital	High	\$2.3 B	\$3.3 B	\$4.9 B	\$2.3 B	\$4.5 B	\$5.9 B	\$5.2 B	\$5.8 B
Cost - O&M/year	High	\$91 M	\$107 M	\$138 M	\$20 M	\$134 M	\$149 M	\$82 M	\$145 M
Material Availability	High	Yes	Yes	Large rock may not be available in large quantity	Yes	Large rock may not be available in large quantity			

Non-Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Compatibility with existing wetlands and refuges	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compatibility with ag land production	High								
Changes to microclimate on southern shoreline (ag)	High	No	No	No	No	No	No	No	No
Compatible with geothermal expansion	High	No	No	No	No	No	No	Yes	No
Compatible with Tribal land use plans, treaties	High	Yes	No	No	Yes	No	No	No	No
Adaptability (e.g. inflow changes) - if flows greater than 717,000 af/year	High	Saline Habitat Complex becomes smaller and Brine Sink becomes larger	Saline Habitat Complex becomes smaller and Brine Sink becomes larger	Brine Sink becomes larger	Saline Habitat Complex becomes smaller and Brine Sink becomes larger	Brine Sink becomes larger	Brine Sink becomes larger	Brine Sink and Marine Sea become larger	Brine Sink becomes larger
Adaptability (e.g. inflow changes) - if flows less than 717,000 af/year but greater than 650,000 af/year	High	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller	Brine Sink becomes smaller
Flexible /Adaptable and components that can be staged	High	Saline Habitat Complex - Yes	Saline Habitat Complex - Yes	Marine Sea - No	Saline Habitat Complex - Yes	Saline Habitat Complex - Yes Marine Sea - No	Saline Habitat Complex - Yes Marine Sea - No	Saline Habitat Complex - No Marine Sea - No	Saline Habitat Complex - Yes Marine Sea - No

Non-Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Environmental Justice (EJ) - Health effects (bodily impairment, infirmity, illness or death	High	Yes							
EJ - High exposure to hazards (risk or rate of)	High	Yes							
Visuals – degrade character, quality Or scenic vistas 2030, 2078	High/Med	Yes - slight change until after 2017							
Compatible with County General Plan	Med	No	No	Yes	No	Yes	Yes	Yes	Yes
Construction impacts to resources - based on imported rock and gravel (millions of cubic yards) Not Off-site impacts	Low	6.72	11.67	85.15	7.42	53.73	93.65	79.65	100.27
Noise – excess noise generation - based on traffic and placement of imported rock and gravel (millions of cubic yards)	Low	6.72	11.67	85.15	7.42	53.73	93.65	79.65	100.27
New source of light and glare (human and non-human biological impact)	Low	Equal							

Non-Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
Traffic increases - construction: number of trucks and employee trips/day	Low	1050	1600	2700	1560	2900	3400	4200	4700
Conversion of agricultural land -	Low	600 acres	600 acres	400 acres	400 acres	400 acres	200 acres	200 acres	400 acres
Cultural resource protection - in sea bed	Low	No	No	No	No	No	No	No	No
Paleontological resource protection-in sea bed	Low	No	No	No	No	No	No	No	No
Hazardous materials- based on sea bed disturbance (millions cubic yards)	Low	77.14	136.53	18.81	154.215	86.77	66.97	33.522	47.23
Fish and bird consumption – selenium concentration (meals/month)	Low	#2	Least - #1	#3	Worst - #8	#7	#5	#6	#4
Geologic hazards – seismic risk, ground failure - based on water contained by berms, barriers, and perimeter dikes (thousands of acre- feet of water)	Low	78	162	336	324	2,069	3,142	3,098	1,545
Risk due to vectors or air-borne disease- based on sea bed disturbance (millions cubic yards)	Low	77.14	136.53	18.81	154.215	86.77	66.97	33.522	47.23

Non-Mandated Attributes	Rank	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8
· ·	Third tier	Initially start							
Timing of		in 2014							
construction -		Will continue							
timing windows		with AQM							
		until 2040							
Completion of major construction	Third tier	2027	2031	2022	2038	2024	2031	2024	2024

ATTACHMENT 1:

DRAFT AGENDA Salton Sea Process Working Group

Thursday, October 5, 2006 9:30 am – 3:30 pm Marriott Ontario Airport 2200 E. Holt Boulevard Ontario, CA 91761 Ph: (909) 975-5000

Desired Outcomes

- □ Recommend a process by October 24, 2006 to the Advisory Committee to identify a Preferred Alternative by the Secretary
- □ Develop a tool to organize information for effective decision-making
- 9:30 10:00 Call to Order
 - Self-Introductions
 - o Agenda Review

10:00 – 12:00	Review draft PEIR information
12:00 – 1:15	LUNCH
1:15 – 2:30	Review attributes (distributed in advance of meeting), comments received, and revise as needed
2:30 – 3:15	Organizing the matrix for alternative review
3:15 – 3:30	Future Meeting Schedule – Next Steps – Document needs